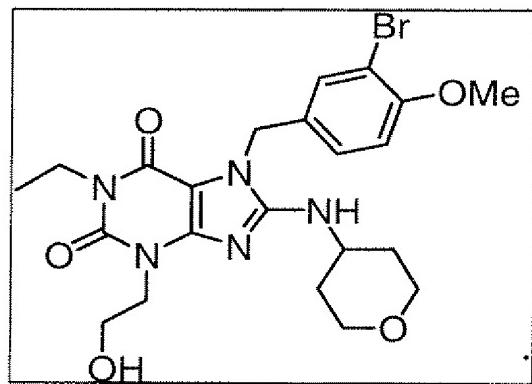


IN THE CLAIMS

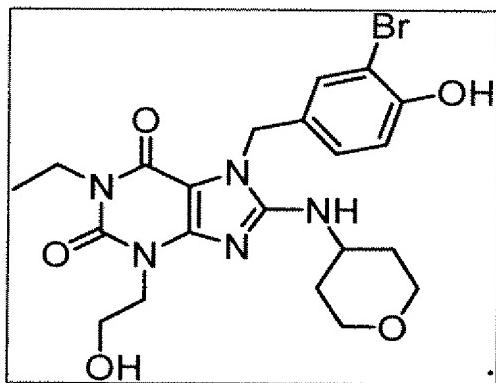
Please amend the claims as follows:

1. (Cancelled)
2. (Currently amended) The compound according to claim 45 52, where, R¹ is an alkyl or aryl group, with or without the one or more substituents.
3. (Currently amended) The compound according to claim 2 52, where, R¹ is a methyl, ethyl or benzyl group, with or without the one or more substituents.
4. (Currently amended) The compound according to claim 45 52, where, R² is an alkyl group, with or without the one or more substituents.
5. (Previously presented) The compound according to claim 4, where, R² is a methyl, ethyl, iso-butyl or hydroxyethyl group, with or without the one or more substituents.
6. (Currently amended) The compound according to claim 45 52, where, R³ is an aryl group, with or without the one or more substituents.
7. (Previously presented) The compound according to claim 6, where, R³ is a hydroxyaryl, alkoxyaryl or aminosulfonylaryl group, with or without the one or more substituents.
8. (Previously amended) The compound according to claim 7, where, the hydroxyaryl, alkoxyaryl or aminosulfonylaryl group for R³ is substituted with at least one halogen atom on the aryl ring.
9. (Currently amended). The compound according to claim 45 52, where R⁴ is a tetrahydropyranyl group, with or without one or more substituents.

10. (Currently amended) The compound according to claim 9 8, where, R⁴ is a tetrahydropyranyl group, with or without the one or more substituents.
11. (Currently amended) The compound according to claim 45 52, where, R¹ is a methyl or ethyl group, R² is a methyl, ethyl or hydroxyethyl group, R³ is a 3-chloro-4-hydroxyphenyl, 3-bromo-4-hydroxyphenyl, 3-chloro-4-methoxyphenyl, 3-bromo-4-methoxyphenyl, or 4-aminosulfonylphenyl group and R⁴ is a tetrahydropyranyl group.
12. (Currently amended) The compound according to claim 45 52, where, R¹ is an alkyl or aryl group, with or without the one or more substituents, R² is an alkyl group, with or without the one or more substituents, and R³ is a 4-hydroxyphenyl, 3-chloro-4-hydroxyphenyl, 3-bromo-4-hydroxyphenyl, 4-methoxyphenyl, 3-chloro-4-methoxyphenyl, 3-bromo-4-methoxyphenyl, 4-aminosulfonylphenyl, 3-chloro-4-aminosulfonylphenyl or 3-bromo-4-aminosulfonylphenyl group.
- 13-21. (Cancelled)
22. (Currently amended) The compound according to claim 45 52, which is:



23. (Currently Amended) The compound according to claim 45 52, which is:



24-33. (Cancelled)

34. (Currently Amended) A method for elevating a cGMP level in a patient in need of the treatment, comprising administering to the patient an effective amount of the compound according to claim 45 52.

35. (Previously presented) A method for treating an erectile dysfunction in a patient in need of the treatment, comprising administering to the patient an effective amount of at least one of the compound according to claim 45 52.

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

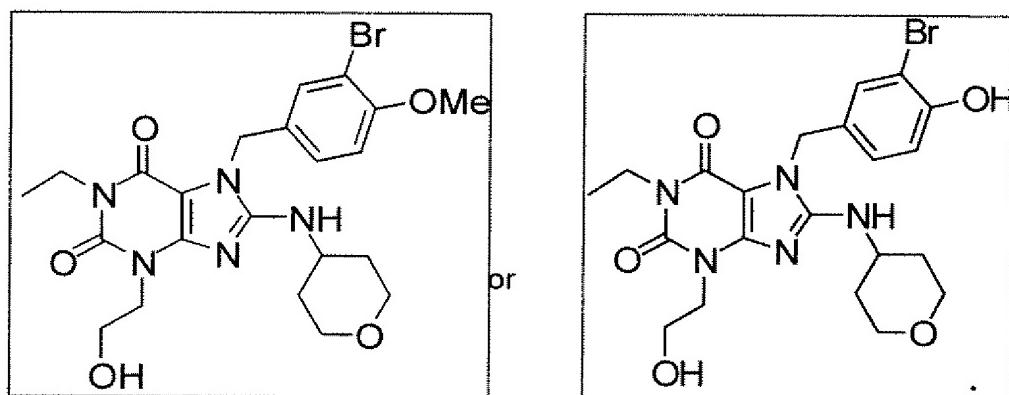
39. (Currently amended) A method for treating an erectile dysfunction or another symptom, disease or disorder in a patient in need of the treatment, comprising administering to the patient a combination therapy, comprising a therapeutically effective amount of at least one compound according to claim 45 and at least one compound selected from the group consisting of: a prostanoid,

α -adrenergic receptor, dopamine receptor agonist, melanocortin receptor agonist, endothelin receptor antagonist, endothelin converting enzyme inhibitor, angiotensin II receptor antagonist, angiotensin converting enzyme inhibitor, neutral metalloendopeptidase inhibitor, renin inhibitor, serotonin 5-HT_{2c} receptor agonist, nociceptin receptor agonist, rho kinase inhibitor, potassium channel modulator and multidrug resistance protein 5 inhibitor.

40. (Cancelled)

41. (Currently Amended) A pharmaceutical composition comprising a compound, enantiomer, stereoisomer, rotomer or tautomer of claim 45 52 or pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

42. (Previously presented) The pharmaceutical composition according to claim 41, wherein the compound is:



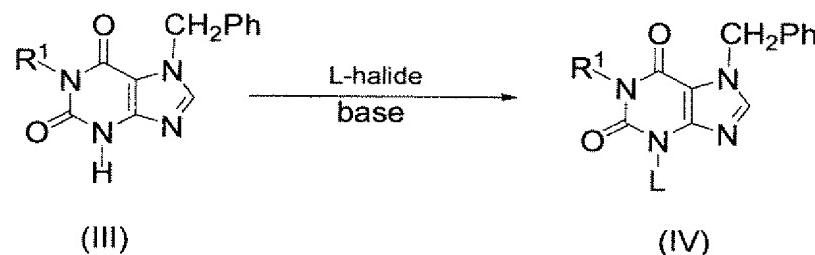
43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Previously presented) A method for producing a compound having the formula (I), comprising:

(i) reacting a compound having the formula (III) with L-halide in the presence of a base to form a compound having the formula (IV);



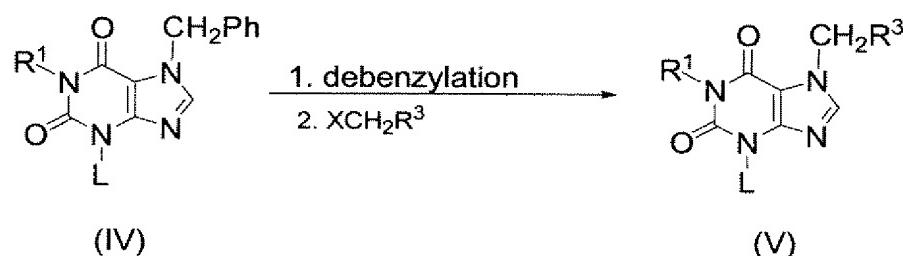
where,

(a) R¹ is a hydrogen atom or a C₁₋₁₅ alkyl group, branched or straight chain, unsubstituted or substituted with one or more substituents, a C₂₋₁₅ alkenyl group, branched or straight chain, unsubstituted or substituted with one or more substituents, a C₂₋₁₅ alkynyl group, branched or straight chain, unsubstituted or substituted with one or more substituents, a C₃₋₁₅ cycloalkyl group, unsubstituted or substituted with one or more substituents, an arylalkyl group, unsubstituted or substituted with one or more substituents, an aryl group, unsubstituted or substituted with one or more substituents, a heteroaryl group, unsubstituted or substituted with one or more substituents, -OR⁵, -COOR⁵, -C(O)R⁵ or -C(O)N(R⁵)₂, where R⁵ is a

hydrogen atom or a hydrocarbon radical, branched or straight-chain, unsubstituted or substituted with one or more substituents:

- (b) L is R² or a protected form of R²; and
 - (c) Ph is a phenyl group;

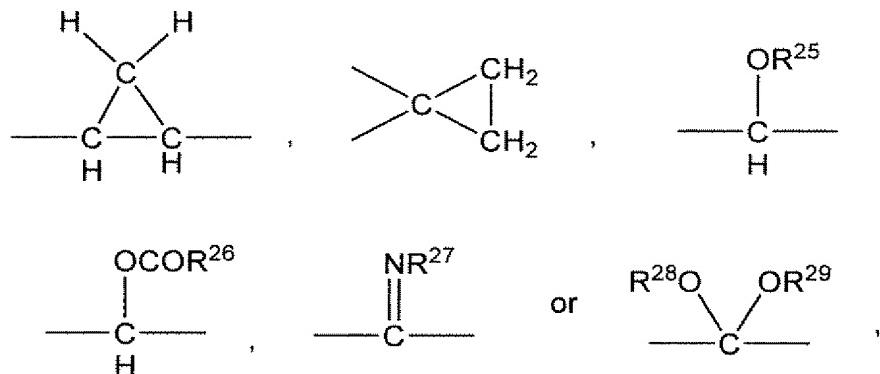
(ii) debenzylating and then reacting the compound having the formula (IV) with a halide having the formula XCH₂R³ to form the compound having the formula (V);



where,

X is a halogen atom and

$N(R^{21})-$, $-CON(R^{22})-$, $-N(R^{22})CO-$, $-OCH_2-$, $-CH_2O-$, $-SCH_2-$, $-CH_2S-$,
 $-NHC(R^{23})(R^{24})-$, $-NR^{23}SO_2-$, $-SO_2NR^{23}-$, $-C(R^{23})(R^{24})NH-$, -
 $CH=CH-$, $-CF=CF-$, $-CH=CF-$, $-CF=CH-$, $-CH_2CH_2-$, $-CF_2CF_2-$,



where,

R^{21} is a hydrogen atom or a $-CO(C_{1-4}$ alkyl), C_{1-6} alkyl, allyl, C_{3-6} cycloalkyl, phenyl or benzyl group;

R^{22} is a hydrogen atom or a C_{1-6} alkyl group;

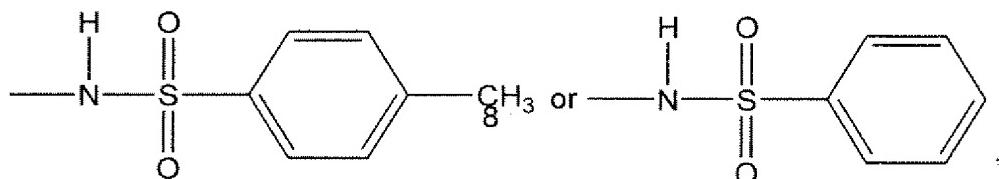
R^{23} is a hydrogen atom or a C_{1-5} alkyl, aryl or $-CH_2$ -aryl group;

R^{24} is a hydrogen atom or a C_{1-4} alkyl group;

R^{25} is a hydrogen atom or a C_{1-8} alkyl, C_{1-8} perfluoroalkyl;
 C_{3-6} cycloalkyl, phenyl or benzyl group;

R^{26} is a hydrogen atom or a C_{1-6} alkyl, C_{3-6} cycloalkyl, phenyl or
benzyl group;

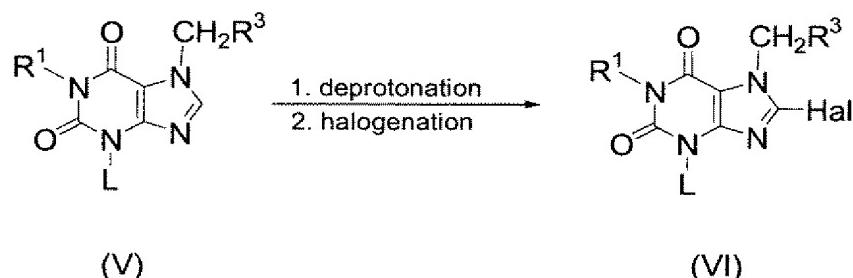
R^{27} is $-NR^{23}R^{24}$, $-OR^{24}$, $-NHCONH_2$, $-NHCSNH_2$,



and

R²⁸ and R²⁹ are, independently of one another, each a C₁₋₄ alkyl group, or R²⁸ and R²⁹, taken together with each other, are a -(CH₂)_q group, where q is 2 or 3; wherein, R²¹ through R²⁹ are optionally substituted with one or more substituents; and

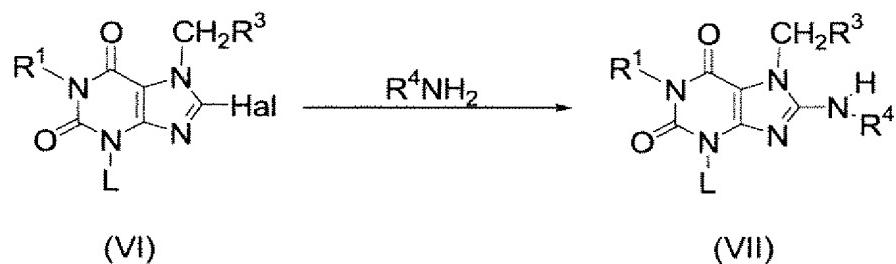
- (iii) deprotonating and then halogenating the compound having the formula (V) to form a compound having the formula (VI):



where,

Hal is a halogen atom;

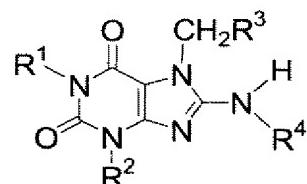
- (iv) reacting the compound having the formula (VI) with an amine having the formula R^4NH_2 to form a compound having the formula (VII):



where,

R^4 is a heterocycloalkyl group of 3 to 15 members, with or without unsubstituted or substituted with one or more substituents; and

- (v) removing the protecting portion of L, when L is the protected form of R^2 , on the compound having the formula (VII) to form the compound having the formula (I):



where,

R^2 is defined the same as R^1 above, with the proviso

that at least one of R^1 and R^2 is not a hydrogen atom;

wherein, the one or more substituents for all the groups are chemically-compatible and are, independently of one another, each an: alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, arylalkyl, alkylaryl, aryl, heteroaryl, heterocycloalkyl, hydroxyalkyl, arylalkyl, aminoalkyl, haloalkyl, alkylthioalkyl, carboxyalkyl, imidazolylalkyl, indolylalkyl, mono-, di- and trihaloalkyl, mono-, di-

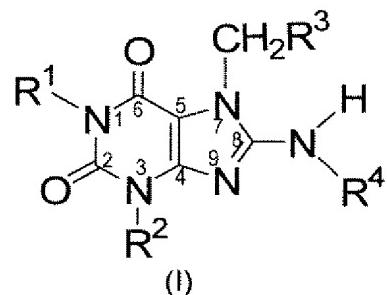
and trihaloalkoxy, amino, alkylamino, dialkylamino, alkoxy, hydroxy, halo, nitro, oximino, -COOR⁵⁰, -COR⁵⁰, -SO₀₋₂R⁵⁰, -SO₂NR⁵⁰R⁵¹, NR⁵²SO₂R⁵⁰, =C(R⁵⁰R⁵¹), =N-OR⁵⁰, =N-CN, =C(halo)₂, =S, =O, -CON(R⁵⁰R⁵¹), -OCOR⁵⁰, -OCON(R⁵⁰R⁵¹), -N(R⁵²)CO(R⁵⁰), -N(R⁵²)COOR⁵⁰ or -N(R⁵²)CON(R⁵⁰R⁵¹) group, where:

R⁵⁰, R⁵¹ and R⁵² are, independently of one another, each a hydrogen atom or a C₁₋₆ alkyl, C₃₋₆ cycloalkyl, C₄₋₆ heterocycloalkyl, heteroaryl and aryl group, or R⁵⁰ and R⁵¹ together with the atom to which they are attached together form a carbocyclic or heterocyclic ring system,

wherein the optional substituents are defined above for the one or more substituents.

47-51. (Cancelled)

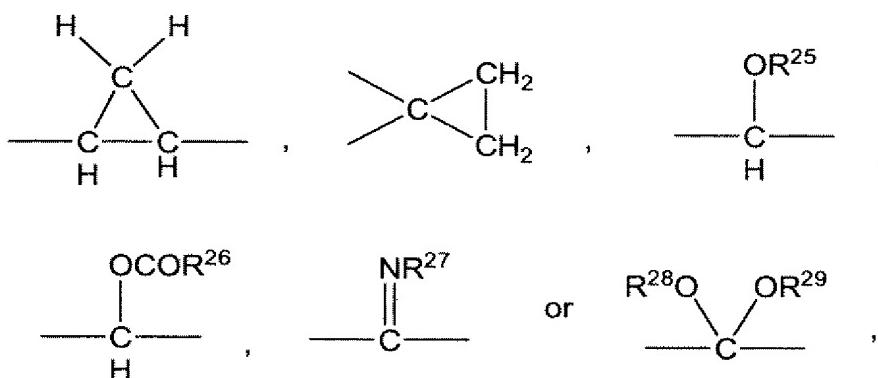
52. (New) A compound of Formula (I), an enantiomer, stereoisomer, rotomer, tautomer or a pharmaceutically acceptable salt thereof:



where,

- (a) R¹ and R² are, independently of one another, each a C₁₋₁₅ alkyl group, branched or straight chain, unsubstituted or substituted with one or more substituents, a C₂₋₁₅ alkenyl group, branched or straight chain, unsubstituted or substituted with one or more substituents, a C₂₋₁₅ alkynyl group, branched or straight chain, unsubstituted or substituted with one or more substituents, a C₃₋₁₅ cycloalkyl group, unsubstituted or substituted with one or more substituents, an arylalkyl group, unsubstituted or substituted with one or more substituents, an aryl group, unsubstituted or substituted with one or more substituents, a heteroaryl group, unsubstituted or substituted with one or more substituents, -OR⁵, -COOR⁵, -C(O)R⁵ or -C(O)N(R⁵)₂, where, R⁵ is a hydrogen atom or a hydrocarbon radical, unsubstituted or substituted with one or more substituents, or one of R¹ and R² is a hydrogen atom and the other one of R¹ and R² is defined the same as above;
- (b) R³ is an aryl group, unsubstituted or substituted with one or more substituents, a heteroaryl group, unsubstituted or substituted with one or more substituents, or a heterocyclic group having 1 to 3 heteroatoms fused to a 5- or 6-membered aryl ring, unsubstituted or substituted with one or more substituents, with the proviso that R³ is not an aryl group substituted at its para position with a -Y-aryl group, where, Y is a carbon-carbon single bond, -C(O)-, -O-, -S-, -N(R²¹)-, -C(O)N(R²²)-, -N(R²²)C(O)-, -OCH₂- , -CH₂O-, -SCH₂- , -

$\text{CH}_2\text{S}-$, $-\text{N}(\text{H})\text{C}(\text{R}^{23})(\text{R}^{24})-$, $-\text{N}(\text{R}^{23})\text{S}(\text{O}_2)-$, $-\text{S}(\text{O}_2)\text{N}(\text{R}^{23})-$,
 $-\text{C}(\text{R}^{23})(\text{R}^{24})\text{N}(\text{H})-$, $-\text{CH}=\text{CH}-$, $-\text{CF}=\text{CF}-$, $-\text{CH}=\text{CF}-$, $-\text{CF}=\text{CH}-$, -
 CH_2CH_2- , $-\text{CF}_2\text{CF}_2-$,



where,

R^{21} is a hydrogen atom or a $-\text{CO}(\text{C}_{1-4}$ alkyl), C_{1-6} alkyl, allyl, C_{3-6} cycloalkyl, phenyl or benzyl group;

R^{22} is a hydrogen atom or a C_{1-6} alkyl group;

R^{23} is a hydrogen atom or a C_{1-5} alkyl, aryl or $-\text{CH}_2\text{-aryl}$ group;

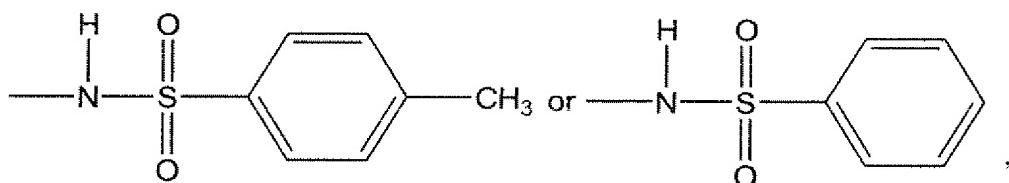
R^{24} is a hydrogen atom or a C_{1-4} alkyl group;

R^{25} is a hydrogen atom or a C_{1-8} alkyl, C_{1-8} perfluoroalkyl,

C_{3-6} cycloalkyl, phenyl or benzyl group;

R^{26} is a hydrogen atom or a C_{1-6} alkyl, C_{3-6} cycloalkyl, phenyl or benzyl group;

R^{27} is $-\text{NR}^{23}\text{R}^{24}$, $-\text{OR}^{24}$, $-\text{NHCONH}_2$, $-\text{NHCSNH}_2$,



and

R²⁸ and R²⁹ are, independently of one another, each a C₁₋₄ alkyl group or, taken together with each other, a -(CH₂)_q group, where q is 2 or 3; and

- (c) R⁴ is a heterocycloalkyl group of 3 to 15 members unsubstituted or substituted with one or more substituents;
wherein, the one or more substituents for all the groups are chemically-compatible and are, independently of one another, each an: alkyl, cycloalkyl, alkenyl, cycloalkenyl, alkynyl, arylalkyl, alkylaryl, aryl, heteroaryl, heterocycloalkyl, hydroxyalkyl, arylalkyl, aminoalkyl, haloalkyl, alkylthioalkyl, carboxyalkyl, imidazolylalkyl, indolylalkyl, mono-, di- and trihaloalkyl, mono-, di- and trihaloalkoxy, amino, alkylamino, dialkylamino, alkoxy, hydroxy, halo, nitro, oximino, -COOR⁵⁰, -COR⁵⁰, -SO₀₋₂R⁵⁰, -SO₂NR⁵⁰R⁵¹, NR⁵²SO₂R⁵⁰, =C(R⁵⁰R⁵¹), =N-OR⁵⁰, =N-CN, =C(halo)₂, =S, =O, -CON(R⁵⁰R⁵¹), -OCOR⁵⁰, -OCON(R⁵⁰R⁵¹), -N(R⁵²)CO(R⁵⁰), -N(R⁵²)COOR⁵⁰ or -N(R⁵²)CON(R⁵⁰R⁵¹) group, where:

R⁵⁰, R⁵¹ and R⁵² are, independently of one another, each a hydrogen atom or a branched or straight-chain, optionally substituted, C₁₋₆ alkyl, C₃₋₆ cycloalkyl, C₄₋₆ heterocycloalkyl, heteroaryl or aryl group, or R⁵⁰ and R⁵¹ together with the atom to which they are attached together form a carbocyclic or heterocyclic ring system,